

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/00

Date Received: 12/30/99

Project: Metro Self Monitor, PO# M63271

Date Extracted: 01/10/00

Date Analyzed: 01/10/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M63271	0.24	0.20	0.26	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

**FRIEDMAN & BRUYA, INC.**

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**QUALITY ASSURANCE RESULTS  
FaR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 001024-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.36	0.39	8	0-20
Copper	mg/L (ppm)	0.37	0.35	6	0-20
Nickel	mg/L (ppm)	0.42	0.45	7	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 001024-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.36	96	93	80-120	3
Copper	mg/L (ppm)	5	0.37	89	87	80-120	2
Nickel	mg/L (ppm)	10	0.42	98	97	80-120	1
Zinc	mg/L (ppm)	5	<0.05	104	103	80-120	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	97	99	80-120	2
Copper	mg/L (ppm)	5	95	97	80-120	2
Nickel	mg/L (ppm)	10	99	101	80-120	2
Zinc	mg/L (ppm)	5	102	102	80-120	0

DH 12/30/99 B1,

DH 12/30/99 B1

912435

Send Report To:

SITE NO.

PROJECT NAME

PURCHASE ORDER #

SAMPLERS (signature)

### PROJECT LOCATION

REMARKS

### SAMPLE DISPOSAL INFORMATION

1

Dispose after 30 days



## Return Samples



## Call for Instructions

SIGNATURE

PRINT NAME

COMPANY

Date \_\_\_\_\_

Time

Relinquished by:

GENEO A. Thompson

ACW

12/30/57

12:36m

Received by:

Karl Th

Kate Trafton

F & B inc

12/30/99

12.36 pm

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
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e-mail: fbi@isomedia.com

January 11, 2000

DUPLICATE COPY

INVOICE #00ACU0111-2

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor Grab-PO# M63271: Results of testing requested  
by Gerry Thompson for material submitted on December 30, 1999.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA,  
MasterCard or government purchasing cards) for payment on our invoices. Please contact our office  
if you would like to take advantage of this service.

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 11, 2000

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted December 30, 1999 from your Metro Self Monitor, PO# M63271 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Dianne C. Hurt  
Project Manager

Enclosures  
ACU0111R.DOC